



**samlex**america®

Power Conversion Products  
2014

# Our Mission

To develop enduring relationships with our customers by providing innovative power conversion products supported by the best customer service in the industry.

Samlex America, Inc. has manufactured and distributed power supply products to more than 90 countries worldwide since 1991. Innovative product designs, strict quality control, and responsible after sales service provide customers with high quality power conversion products at extremely competitive prices.

## What We Do

Samlex America is the premier provider of power conversion products:

- DC - AC Power Inverters
- Solar Power Systems
- Solar Charge Controllers
- Battery Chargers
- AC - DC Power Supply
- DC - DC Power Converters
- OEM and ODM Services

## Contact Information

### Toll Free Numbers

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## Best Customer Service in the Industry

- Fast delivery backed by extensive inventory in multiple strategically located warehouses
- Pre-sales application specific product selection assistance
- Post sales installation and troubleshooting guidance
- Fully context aware of industry applications in our markets
- Technically competent customer service staff
- ISO9000 Certified
- Minimum 2 Year Warranty

## Warranty

Samlex warranty policy is provided by Samlex America Inc., and covers defects in workmanship and material of products manufactured by Samlex.

Samlex warranties expressly exclude warranty coverage for the following:

- Failures related to the normal wear and tear of the product
- Costs of installation, removal or inspection of the product
- Damage to the product caused by improper installation
- Products that have been modified or altered from their original condition
- Products that have been physically damaged, misused, or neglected
- Damage to the product caused by water, fire corrosion, lightning, or biological infestations
- Products that have had repairs attempted or made by anyone other than a Samlex employee or by a Samlex approved service provider
- Damage to the product that is caused by improper use
- Products that have had the serial number defaced, removed or altered
- Products that have failed after the warranty has expired

Warranty and warranty period varies by product. Information on the warranty for various products can be obtained by contacting Samlex America Inc. technical support, or referring to the manual included with the product. Warranty may be limited outside of Continental USA and Canada.

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# Modified Sine Wave Inverters

## PSE SERIES



PSE-12125A

### DESIGN FEATURES

- Wide DC voltage range of 10.5VDC to 16.5VDC
- High efficiency
- Modified sine wave output voltage
- Overload protection
- High output current surge
- Low battery alarm/shut down
- Low idle power draw
- Optional remote control

### APPLICATIONS

Mobile offices	Field work
Boats	Construction sites
Recreational	Solar power systems
Recreational vehicles	Emergency backup power
Camping	Home electronics
Telecommunication	

### 2 YEAR WARRANTY

These high efficiency modified sine wave DC-AC inverters convert 12VDC or 24VDC to 120VAC, 60Hz.

Features include overload, over-temperature, low input and high input voltage protection. The front-end LED display indicates battery voltage and output power levels.

## Models PSE-12275A & PSE-24275A

Output AC power is available by means of hardwire connection. A NEMA5-15R receptacle with 15 Amp breaker is also included.



PSE-24275A

### DC-AC Modified Sine Inverters - PSE Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets (NEMA5-15R)
PSE-12125A	12	120	1250	2500	6.8	13.19 x 9.45 x 3.35	2
PSE-12175A	12	120	1750	3500	9.4	17.91 x 9.45 x 3.35	2
PSE-12275A*	12	120	2750	4500	17.0	19.49 x 8.07 x 6.30	1
PSE-24125A	24	120	1250	2500	6.8	13.19 x 9.45 x 3.35	2
PSE-24175A	24	120	1750	3500	9.4	17.91 x 9.45 x 3.35	2
PSE-24275A*	24	120	2750	4500	16.2	19.49 x 8.07 x 6.30	1
RC-15	Remote Control (comes with 15' cable)						

\* Hard-wireable



RC-15 Optional Remote ON/OFF Control (sold separately)

# Modified Sine Wave Inverters

## SAM SERIES



SAM-1500-12

### DESIGN FEATURES

- Compact design
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault
- Soft start technology
- 100W to 800W models include a USB charging port, 2.1 Amps
- 1000W to 3000W models have the option for a remote ON/OFF control

### APPLICATIONS

Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Service vehicles	Home electronics: TV, DVD, gaming consoles
Mobile offices	Tools & appliances
Recreational vehicles, camping	

COMPLIANCE ETL Safety Listed to UL Standard 458

### 2 YEAR WARRANTY



## SAM-100-12

Easily plugs into any 12V socket in your car, boat, truck or RV. Comes with one AC outlet and a USB charging port that can be used simultaneously to power your favorite electronics.

**Now includes 2.1 Amp USB Port to accomodate new smart phones, laptops and tablets.**



### DC-AC Modified Sine Inverters - SAM Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets
SAM-100-12*	12	115	100	200	0.3	5.0 x 2.5 x 1.50	1
SAM-250-12*†	12	115	250	500	0.9	5.9 x 4.5 x 1.80	1
SAM-450-12*†	12	115	450	900	1.2	5.9 x 6.1 x 2.20	2
SAM-800-12†	12	115	800	1600	2.9	8.6 x 7.1 x 2.30	2
SAM-1000-12	12	115	1000	2000	3.7	9.8 x 7.1 x 2.30	2
SAM-1500-12	12	115	1500	3000	7.0	11.1 x 8.0 x 3.30	2
SAM-2000-12	12	115	2000	4000	8.5	13.6 x 8.0 x 3.30	3
SAM-3000-12	12	115	3000	6000	12.1	16.5 x 8.0 x 3.30	3
SAM-450-12E*†	12	230	450	900	1.3	6.0 x 6.1 x 1.80	1
SAM-RC	Remote Control (For use with 1000W to 3000W models) sold separately.						

\* Comes with 12V power plug

† Comes with battery clamps



### SAM-RC Remote Control

- Power ON/OFF
- 10' cable with RJ45 Connector
- Bar Meter Monitor for battery charge level and output power
- LED indicator lights for:
  - Over & under voltage protection
  - Over temperature protection
  - Overload protection
  - Power save mode

# Modified Sine Wave Inverter/Charger

## SAM-1500C-12



SAM-1500C-12

This all-in-one robust unit integrates a 1500W Modified Sine Wave Inverter, 30A Transfer Switch and a Three Stage 12V, 15 Amp Battery Charger.

### No Interruption of Power...

The transfer switch automatically detects utility or generator power and seamlessly transitions to your battery bank when grid power is unavailable.

Also provides safe and rapid charging of 12V battery bank when grid power is available.

### DC-AC Modified Sine Inverter/Charger - SAM-1500C-12

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets (NEMA5-15R)
SAM-1500C-12	12	115	1500	3000	8.82	7.95 x 13.58 x 3.30	2



### DESIGN FEATURES

- Integrated 1500W Modified Sine Wave Inverter, 30A Transfer switch, and 3 Stage 12 VDC, 15A Battery Charger
- High efficiency, lightweight, and compact for easy installation
- Separate ON/OFF control for Inverter and Battery Charger for selectable operation as inverter, charger or UPS function
- 4 color LED indicators to monitor operational status
- Load controlled fan for efficient cooling when required
- Allows use of higher capacity external 12V battery bank for longer backup time
- Neutral to Ground Bond Switching Relay for grounding compliance
- Electronic protections including GFCI when in Inverter Mode

### APPLICATIONS

Back-up Power Systems  
12V Battery Charging

Remote Housing  
RV's, Trucks & Utility Vehicles

### 2 YEAR WARRANTY

# Pure Sine Wave Inverters

## SSW SERIES



SSW-1500-12A

### DESIGN FEATURES

- High surge, 2x continuous operating power
- Soft start technology – the unit ramps up gradually, putting less strain on the inverter and the load
- Compact and lightweight
- Universal circuit protection: thermal, battery, overload, short circuit, earth fault
- 350W and 600W units have a USB charging port
- 1000W, 1500W, and 2000W models include an LCD ON/OFF remote control

### APPLICATIONS

Emergency backup power  
Mobile offices  
Recreational vehicles  
Camping

Home electronics:  
TV, DVD, gaming consoles  
Tools and appliances  
Computers, printers

### COMPLIANCE

ETL Safety Listed to UL Standard 458

### 2 YEAR WARRANTY



Pure Sine Wave power at a Modified Sine Wave price.

Take the comforts of home on the road.

### Install your inverter SAFELY and SIMPLY with a Samlex Inverter Installation wiring kit.

Each kit contains industrial grade 10' cables, a fuse assembly with a replaceable fuse & all of the hardware required to complete your inverter installation in a few easy steps. Kits are available in 4 sizes. See page 13 for more details.



DC-2000-KIT

### DC-AC Pure Sine Wave Inverters - SSW Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets	USB
SSW-350-12A	12	115	350	700	1.5	7.87 x 6.10 x 2.24	2	Yes
SSW-600-12A	12	115	600	1200	2.0	9.06 x 6.10 x 2.24	2	Yes
SSW-1000-12A	12	115	1000	2000	5.7	10.43 x 8.74 x 3.46	2	n/a
SSW-1500-12A	12	115	1500	3000	7.1	12.2 x 8.74 x 3.46	2	n/a
SSW-2000-12A	12	115	2000	4000	8.4	12.2 x 8.74 x 3.46	2	n/a
SSW-R1-12B								Remote Control for use with 1000W, 1500W & 2000W models

LCD Remote Control included with every 1000W, 1500W & 2000W Model:

- Power ON/OFF
- 10' cable with RJ45 connector
- Display Indicates: Input voltage, Output power, Input fault, Output fault
- Also sold separately



SSW-R1-12B

# Pure Sine Wave Inverters

## PST SERIES

Proven extremely reliable in the field for over 10 years. PST's high frequency design provides clean and reliable AC power identical to household electricity. 220 VAC models available by special order.



### PST-120-12

Use to operate laptops, portable electronics, small TVs, DVDs, light-duty hand tools and other sensitive electronic devices. Safety approved to UL60601-1, for use in medical environments.

- USB charging port: 5V, 500mA
- Lightweight, portable & compact
- LED indicator
- Temperature controlled fan
- 12V power plug included
- Low idle power draw of less than 0.5 Amps



### DC-AC Pure Sine Wave Inverters - PST Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets
PST-120-12	12	120	120	-	1.0	7.48 x 4.13 x 1.18	1
PST-150-12A	12	120	150	300	2.9	8.37 x 5.75 x 2.56	1
PST-300-12	12	120	300	500	3.46	9.69 x 5.76 x 2.58	2
PST-600-12	12	120	600	1000	5.9	10.87 x 9.47 x 3.23	2
PST-1000-12	12	120	1000	2000	8.8	15.63 x 9.47 x 3.23	2
PST-1500-12	12	120	1500	3000	15.6	18.43 x 10.35 x 4.16	2
PST-2000-12	12	120	2000	4000	15.6	18.43 x 10.35 x 4.16	2
PST-300-24	24	120	300	500	3.46	9.69 x 5.76 x 2.58	1
PST-600-24	24	120	600	1000	5.9	10.87 x 9.47 x 3.23	2
PST-1000-24	24	120	1000	2000	8.8	15.63 x 9.47 x 3.23	2
PST-1500-24	24	120	1500	3000	15.6	18.43 x 10.35 x 4.16	2
PST-2000-24	24	120	2000	4000	15.6	18.43 x 10.35 x 4.16	2
RC-15A	Optional remote for 600 and 1000 Watt models. 15' cable. Power ON/OFF						
RC-200	Optional remote for 1500 and 2000 Watt models. 15' cable. Detailed monitoring & remote power operation						

## The Number One Choice for Reliable AC Power

### DESIGN FEATURES

- Silent Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- GFCI protected outlets
- 1500 and 2000W models can be hard-wired
- Low idle power draw
- Commercial grade design suitable for heavy duty loads, long periods of continuous operation & for emergency back up
- Wide operating DC input range compatible with new high voltage alternators
- Optional remote controls available for select models
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

### APPLICATIONS

Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Mobile offices	Home electronics: TV, DVD, gaming consoles
Cordless chargers	Tools and appliances
Recreational vehicles, camping	Automotive & marine
	Computer and printers

**COMPLIANCE** FCC Approved; ETL Safety Listed to UL Standard 458

### 2 YEAR WARRANTY



### Optional Remote Controls

#### RC-15A

For use with PST-600 & PST-1000:

RC-15A



#### RC-200

For use with PST-1500 & PST-2000:



### Models PST-1500 and PST-2000

Output AC power is available by means of **hard-wire connection** or dual 3 prong outlets with GFCI protection.



# Pure Sine Wave Inverters

## PST E SERIES 230 VAC



PST-30S-12E

The PST-E Series of Pure Sine Inverters converts 12 or 24 VDC to 230 VAC, 50 HZ. Models range from 300 to 2000 Watts and feature Schuko type outlets. 300W models come with a 12V power plug while larger models include pin-type battery cable lugs.

The robust design of the PSTs makes them suitable for heavy duty loads, long periods of continuous use and for emergency back-up power.

### Optional Remote Control RC-15

For use with 600, 1000, 1500 and 2000 Watt Models:

- ON/OFF Button
- 15' of cable



RC-15

### DESIGN FEATURES

- Silent Operation – temperature controlled fan reduces energy consumption
- Extremely low interference with other devices
- Low idle power draw
- Clean and reliable AC power identical to household electricity
- Wide operating DC input range: 19.5 to 16.5 VDC
- Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit

### APPLICATIONS

Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Mobile offices	Home electronics: TV, DVD, gaming consoles
Cordless chargers	Tools and appliances
Recreational vehicles, camping	Computer and printers
Automotive & marine	

### COMPLIANCE CE

2 YEAR WARRANTY



# Pure Sine Wave Inverters

## SA SERIES



SA-1500K-124

SA Series high efficiency microprocessor controlled DC-AC inverters are capable of driving highly reactive and capacitive loads, these industrial grade inverters are ideal for heavy duty applications.

### DESIGN FEATURES

- Isolated input and output
- Advanced microprocessor design
- Protections: overload, short circuit, reverse polarity, over/under input voltage, over temperature

### APPLICATIONS

Service vehicles	Field work/construction sites
Mobile offices	Solar power systems
Boats	Emergency backup power
Recreational vehicles, Camping	Home electronics: TV, DVD, gaming consoles, stereo equipment
Telecommunication	
Automotive	

### COMPLIANCE

Safety Listed to UL 458 (All models except SA-2000K & SA-3000K)  
FCC Part 15(B), Class B

### 2 YEAR WARRANTY

Optional remote controls



S-R5



S-R8



S-R6-12/24

### DC-AC Pure Sine Wave Inverters - PST Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets (Schuko)
PST-30S-12E	12	230	300	500	2.9	8.5 x 5.8 x 2.6	1
PST-60S-12E	12	230	600	1000	5.4	11.1 x 9.5 x 3.2	1
PST-100S-12E	12	230	1000	2000	8.8	15.7 x 9.5 x 3.2	1
PST-150S-12E	12	230	1500	3000	12.7	16.3 x 11.1 x 4	2
PST-200S-12E	12	230	2000	4000	13.0	16.3 x 11.1 x 4	2
PST-60S-24E	24	230	600	1000	5.4	11.1 x 9.5 x 3.2	1
PST-100S-24E	24	230	1000	2000	8.8	15.7 x 9.5 x 3.2	1
RC-15	Optional remote for 600 - 2000W models.						

### Model SA-3000K

Output AC power is available by means of hard-wire connection or NEMA5-20R receptacles.



SA-3000K-112

### DC-AC Pure Sine Wave Inverters - SA Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlets	Remote
SA-150-112	12	110	150	200	5.4	8.5 x 5.25 x 2.75	2	Contact Operated
SA-300-112	12	110	300	400	7.7	9.5 x 6.0 x 3.0	2	
SA-600R-112	12	120	600	800	5.4	12.25 x 7.0 x 2.75	2	S-R6-12, S-R8
SA-1000K-112	12	110	1000	2000	8.8	15.5 x 7.0 x 3.5	2	
SA-1500-112	12	120	1500	2000	15.5	16.0 x 11.0 x 4.0	2	S-R5
SA-2000K-112	12	120	2000	4000	19.8	15.5 x 8.25 x 6.25	2	S-R6-12, S-R8
SA-3000K-112	12	120	3000	6000	22.0	17.25 x 8.25 x 6.75	2	S-R6-12, S-R8
SA-150-124	24	110	150	200	5.4	8.5 x 5.25 x 2.75	2	Contact Operated
SA-300-124	24	110	300	400	7.7	9.5 x 6.0 x 3.0	2	
SA-600R-124	24	120	600	800	5.4	12.25 x 7.0 x 2.75	2	S-R6-24, S-R8
SA-1000K-124	24	110	1000	2000	8.8	15.5 x 7.0 x 3.5	2	S-R5
SA-1500-124	24	120	1500	2000	15.5	16.0 x 11.0 x 4.0	2	S-R6-24, S-R8
SA-2000K-124	24	120	2000	4000	19.8	15.5 x 8.25 x 6.25	2	S-R6-24, S-R8
SA-3000K-124	24	120	3000	6000	22.0	17.25 x 8.25 x 6.75	2	S-R6-24, S-R8

# Pure Sine Wave Inverters

## COTEK S & SK SERIES



SK1000-112

S & SK Series pure sine wave inverters are high efficiency, microprocessor controlled DC-AC inverters. Converts 12VDC, 24VDC or 48VDC to 120VAC. Models available in various sizes and voltage combinations by request.

Units come with GFCI receptacles (other types of receptacles may be requested).

### COTEK Series Inverters

Various models available ranging from 150W to 3000W.

**Input voltages available:**  
12VDC, 24VDC or 48VDC

**Output voltages available:**  
120VAC or 220VAC

See page 10 for outlet types available.

Minimum order quantities and custom pricing may apply - ask your sales rep for details.

### DESIGN FEATURES

- Pure sine wave output (THD < 3%)
- Switch selectable output frequency: 50/60Hz
- Power save mode (700W models and higher)
- Advanced micro-controller
- Protections: overload, short circuit, leakage, low and high DC input voltages, high temperature, reverse polarity

### APPLICATIONS

Service vehicles	Field work
Mobile offices	Construction sites
Boats	Solar power systems
Recreational vehicles	Emergency backup power
Camping	Home electronics
Telecommunication	

### COMPLIANCE

UL Safety Listed to UL 458 (SK1500 only); FCC Part 15(B), Class A

### 2 YEAR WARRANTY



# Pure Sine Wave Inverters

## COTEK SK SERIES 220 VAC



SK3000-212

SK Series pure sine wave inverters are designed for heavy duty commercial and industrial applications.

These 12VDC, 220VAC models come with a standard 220 Volt Schuko type outlet.

### DESIGN FEATURES

- Pure sine wave output (THD < 3%)
- Switch selectable output frequency: 50/60Hz
- Power save mode (700W models and higher)
- Input and output are fully isolated
- Advanced micro-controller
- Protections: overload; short circuit; low and high DC input voltages; high temperature; reverse polarity

### APPLICATIONS

Service vehicles	Field work
Mobile offices	Construction sites
Boats	Solar power systems
Recreational vehicles	Emergency backup power
Camping	Home electronics
Telecommunication	

### COMPLIANCE CE

### 2 YEAR WARRANTY



### DC-AC Pure Sine Wave Inverters - COTEK S & SK Series

Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlet (NEMA5-20R)
SK200-148	48	120	200	400	2.65	7.3 x 5.8 x 2.36	2
SK350-148	48	110	350	700	3.09	7.3 x 5.8 x 2.36	2
S600R-148	48	120	600	800	5.4	11.61 x 7.09 x 2.83	2
SK1000-148	48	120	1000	2000	8.8	13.39 x 7.17 x 3.46	2
SK1500-112	12	120	1500	3000	10.56	14.57 x 7.52 x 3.46	2
SK1500-124	24	120	1500	3000	10.56	14.57 x 7.52 x 3.46	2
S1500-148	48	120	1500	2000	15.5	15.4 x 10.8 x 4.1	2
SK3000-148	48	120	3000	6000	22.0	15.67 x 8.23 x 6.53	2

### Inverter Remote Controls: COTEK S & SK SERIES

Model	Description
S-R5	Remote Control for use with S1500 Series Inverters. Comes with 10' cable.
S-R6-12	Remote Control for use with any SK1000-, SK2000- or SK3000- 112 or 212 inverter. Comes with 10' cable.
S-R6-24	Remote Control for use with any SK1000-, SK2000- or SK3000-124 or 224 inverter. Comes with 10' cable.
S-R8	Remote Control for use with SK1000, SK2000 & SK3000 inverters. Comes with 10' cable.

### 220 VAC Inverters

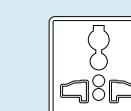
Pure sine waveform with low harmonic distortion. Heavy duty, capable of driving highly reactive and capacitive loads. High surge rating.

Also available by special order – optional outlets:

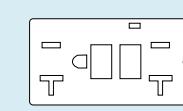
- Universal
- North American (GFCI)
- Australia/New Zealand
- United Kingdom
- Continental Europe (Schuko)

### DC-AC Pure Sine Wave Inverters - COTEK SK Series (220 VAC)

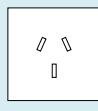
Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Outlet Schuko
SK200-212	12	220	200	400	2.65	7.3 x 5.8 x 2.36	2
SK350-212	12	220	350	700	3.09	7.3 x 5.8 x 2.36	2
SK700-212	12	220	700	1400	5.4	11.61 x 7.09 x 2.83	2
SK1000-212	12	220	1000	2000	8.8	15.08 x 7.17 x 3.46	2
SK1500-212	12	220	1500	3000	10.56	16.34 x 7.52 x 3.46	2
SK2000-212	12	220	2000	4000	19.8	16.6 x 8.18 x 6.53	2
SK3000-212	12	220	3000	6000	22.0	17.8 x 8.18 x 6.53	2



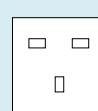
UNIVERSAL



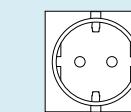
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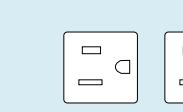
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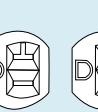
UNITED KINGDOM



CONTINENTAL EUROPEAN



NEMA5-15R



NEMA5-20R

# Pure Sine Wave Inverter with Transfer Switch ST SERIES



ST1500-112

Easily manage your shore power and back up applications. These inverters are capable of driving highly reactive & capacitive loads at start-up. Synchronized operation allows the transfer to be almost instantaneous.

Designed for fleet, utility and emergency vehicles, ST inverters feature an integrated automatic AC transfer switch, sized appropriately with breakers to simplify wiring and speed installation.

## Power Save Mode

User selectable Power Save Mode shuts off non-essential circuitry and reduces "no load" self-consumption until it sees a minimum programmable load.

### DESIGN FEATURES

- Built-in 30 Amp transfer relay and 30 Amp AC circuit breaker
- Switch selectable Power Save Mode (Sleep Mode)
- Switch selectable output frequency: 50/60Hz
- Remote ON/OFF control through external contact closure by mechanical/transistor switch
- Optional wired remote controls available.
- Includes ignition lockout and reverse over-ride function
- Input and output are fully isolated
- Advanced micro-controller
- Load controlled cooling fan

### APPLICATIONS

Service vehicles	Telecommunication
Mobile offices	Solar power systems
Boats	Emergency backup power
Recreational vehicles	Home electronics

### COMPLIANCE

FCC Part 15(B), Class A; CE

### 2 YEAR WARRANTY



DC-AC Pure Sine Wave Inverters - ST Series							
Model	Input (VDC)	Output (VAC)	Output Power (W)	Surge (W)	Weight (lbs)	Dimensions (inches)	Remote
ST1000-124	24	100 - 120	1000	2000	14.0	14.7 x 9.3 x 4.5	S-R8, S-R6-24
ST1500-112	12	100 - 120	1500	3000	16.0	15.9 x 9.3 x 4.5	S-R8, S-R6-12
ST1500-124	24	100 - 120	1500	3000	16.8	15.9 x 9.3 x 4.5	S-R8, S-R6-24

Inverter Remote Controls	
Model	Description
S-R6-12, S-R6-24, S-R8	Remote Controls for use with ST1500-112 and ST1500-124 inverters. Come with 10' cable.



# Pure Sine Wave Inverters with Transfer Relay SR RACKMOUNT SERIES



SR1000-124

SR Series 19" rackmount pure sine wave, space-saving inverters, 1U height.

These inverters include a powerful digital signal processor. Easily programmable with RS-232 interface and Ethernet SNMP interface option available.

220 VAC available by special order.

### DESIGN FEATURES

- Advanced Digital Signal Processing
- Space saving 19" 1U height
- LCD/LED display and audible alarms
- Built-in 15 Amps transfer relay and 12 Amps AC input circuit breaker
- User selectable frequency and output voltage
- Load/temperature controlled cooling fans
- Protections: overload; short circuit; low and high DC input voltages; high temperature; reverse polarity
- Pure sine wave output (THD < 2%)

### APPLICATIONS

Telecommunication	UPS system
Emergency backup power	

### COMPLIANCE

FCC Part 15(B), Class B; UL Safety Listed to UL60950-1; CE

### 2 YEAR WARRANTY



### DC-AC Pure Sine Wave Inverters - Rackmount

Model	Input (VDC)	Output (VAC)	Watts (W)	Output Power (W)	Weight (lbs)	Dimensions (inches)
SR1000-124	24	120	1000	2000	12.7	19 x 13.6 x 1.71
SR1000-148	48	120	1000	2000	12.7	19 x 13.6 x 1.71



SR Series Rackmount

# Inverter Installation Kits

## PLUG & POWER



DC-3500-KIT

Connect your inverter to a battery bank safely and simply. Each kit contains a pair of heavy duty cables, a fuse assembly with replaceable fuse, and all of the necessary hardware.

Samlex uses only the highest quality of industrial grade cable. The inherent nature of the design makes the cable suitable to be used as battery cable in automotive and other renewable energy applications.

### Connecting the Fuse Block (400A) to the Battery



Battery end of positive cable cut & prepared for fitting into fuse block



Fitted fuse assembly



Positive cable connection to the battery with fuse block to protect cables

#### DESIGN FEATURES

##### Cable Features:

- Very wide operating temperature of -50°C to 105°C
- High strand count, annealed copper conductors for high flexibility and additional protection against corrosion
- Has layers of insulation that provide resistance to abrasion, oils, acids and heat

#### APPLICATIONS

Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Mobile offices	Home electronics: TV, DVD, gaming consoles
Boats	Tools and appliances
Recreational vehicles, camping	Computer and printers
Automotive	

#### 2 YEAR WARRANTY

# Inverter Installation Kits

## FUSES & CIRCUIT PROTECTION



#### DESIGN FEATURES

- 100A, 200A and 300A Marine Rated Battery Fuses are provided with DC-1000-KIT, DC-2000-KIT and DC-2500-KIT respectively. The MRBF Fuse with high Ampere Interrupting Capacity (AIC) provides easy, weatherproof and safe short circuit protection.
- 400A Class T Fuse is provided with DC-3500-KIT. Each Class T Fuse has a very high AIC, and is designed for protection against damage due to short circuit conditions in battery cables.

#### APPLICATIONS

Solar power systems	Telecommunication
Emergency backup power	Field work/construction sites
Mobile offices	Home electronics: TV, DVD, gaming consoles
Boats	Tools and appliances
Recreational vehicles, camping	Computer and printers
Automotive	

#### 2 YEAR WARRANTY

#### DC Inverter Installation Kits

KIT	INVERTER	FUSE SIZE (AMPS)	CABLE GAUGE	CABLE LENGTH
DC-1000-KIT	12V, 600-1000W 24V, 1200-2000W	100A	AWG #4	2 x 10'
DC-2000-KIT	12V, 1000-1700W 24V, 2000-3400W	200A	AWG #2	2 x 10'
DC-2500-KIT	12V, 1700-2500W 24V, 3400-5000W	300A	AWG #2/0	2 x 10'
DC-3500-KIT	12V, 2500-3500W 24V, 5000-7000W	400A	AWG #4/0	2 x 10'

Choose your kit based on the size of your inverter.

### Fuse protection in the battery circuit

A battery is an unlimited source of current. If there is a short circuit along the length of the battery cables, thousands of Amperes of current can flow from the battery.

To prevent damage or injury due to short circuit conditions, fuses with an AIC rating of 10,000A at 14VDC/5000A at 32VDC, or higher should be used.

#### Inverter Installation Kits - Fuses & Circuit Protection

Model	Description
DC-FA-100	Fuse Assembly, 100 Amps Package Includes: (1) Single Pole Fuse Bar, (1) 100 Amp Fuse, (1) Insulating Cap, (1) Nut, (2) Washers.
DC-FA-200	Fuse Assembly, 200 Amps Package Includes: (1) Single Pole Fuse Bar, (1) 200 Amp Fuse, (1) Insulating Cap, (1) Nut, (2) Washers.
DC-FA-300	Fuse Assembly, 300 Amps Package Includes: (1) Single Pole Fuse Bar, (1) 300 Amp Fuse, (1) Insulating Cap, (1) Nut, (2) Washers.
DC-FB-2	Double Pole Fuse Bar Package Includes: (1) Double Pole Fuse Bar, (1) Double Insulating Cap, (2) Nuts, (4) Washers.
MRBF-100	Replacement Fuse, 100 Amps
MRBF-200	Replacement Fuse, 200 Amps
MRBF-300	Replacement Fuse, 300 Amps
CFB2-400	DC Class T Fuse Block with 400 Amp Fuse
JLN-400	Class T Replacement Fuse, 400 Amp

# Transfer Switch STS-30



STS-30

Use a Samlex Transfer Switch to automatically switch between utility power and generator or between utility power and inverter.

## Pre-wired

For ease of connection for setting up back up power / UPS system comprised of an inverter, battery charger, and batteries.

## Primary AC power

Is drawn from Electric Utility / Shore Power / Generator.

## Back up power

Is provided by inverter powered from batteries charged by battery charger.

## DESIGN FEATURES

- Rated capacity of 30 Amps at 120VAC and is suitable for a 30 Amp Utility Power Cord and a Generator of up to 3.6 KVA capacity
- Heavy duty Double Pole Double Throw (DPDT) relay for switching both the Line and Neutral
- Can be installed on the line side of the main breaker panel allowing switching of the entire load or on the load side to only switch dedicated circuits
- DIP Switch to enable time delay when transferring to a generator to provide warm-up time

## APPLICATIONS

Solar power systems	Recreational vehicles, camping
Emergency backup power	Automotive
Mobile offices	Telecommunication
Boats	Field work/construction sites
Lighting systems	

## 2 YEAR WARRANTY

# Battery Chargers SEC-UL & BP SERIES



SEC-1280UL

The ALL NEW SEC UL Series Battery Chargers are fully automatic and based on Samlex's industry proven SEC design that professionals have depended on for years. Packed with added features and certified to meet stringent UL safety standards, the SEC UL Series provides reliable charging and trouble free battery maintenance.

## SEC DESIGN FEATURES

- High efficiency, commercial grade, lightweight, quiet operation
- 2 or 3 stage charging (user selectable)
- 120 or 230 VAC, 50/60 Hz (user selectable)
- For all types of Lead Acid batteries
- Charge loaded or unloaded batteries
- Use as a power supply or DC UPS
- Universal Protection Circuit – short circuit, overload, reverse battery polarity
- Charge 2 to 3 banks of batteries at once – no isolator necessary
- Optional remote LED panel (select models)
- Temperature Compensated Charging Circuit (to prevent under/overcharging of battery if temperature varies extensively) – SEC-1250UL, SEC-1280UL, SEC-2425UL and SEC-2440UL

## APPLICATIONS

Automotive	Communication sites
Recreational vehicles	Battery back-up systems
Boats	Alternative energy systems

## COMPLIANCE

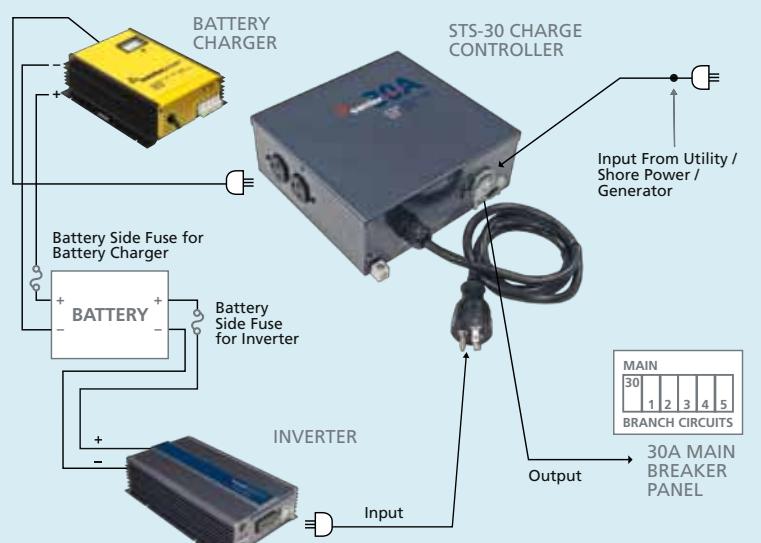
Safety Certified and Listed to UL Standard UL-156; EMI Complaint to FCC Part 15(B), Class B

## 2 YEAR WARRANTY



## Transfer Switch

Model	Description	Weight	Dimensions
STS-30	Automatic Transfer Switch, 30A	4.4 lbs	9.0" x 8.4" x 3.2"



## Configuration of UPS System

## 900-RC Remote Control

The 900-RC Remote Control comes with a 33' cable. The Remote Panel can be used to power ON/OFF and also monitor the charging status from a remote location.

Optional for:

SEC-1250UL  
SEC-1280UL  
SEC-2425UL  
SEC-2440UL



900-RC

## Half Power Mode

Allows smaller capacity batteries to be charged safely at a lower current.

## Battery Chargers - Automatic

Model	VDC	Amps	Weight (lbs)	Dimensions (inches)	Optional Remote
SEC-1215UL	12	15	4.8	8.5 x 8.4 x 3.3	-
SEC-1230UL	12	30	6.4	10.8 x 8.4 x 3.3	-
SEC-1250UL*	12	50	11.0	13.0 x 9.0 x 4.25	900-RC
SEC-1280UL*	12	80	12.1	15.0 x 9.0 x 4.25	900-RC
SEC-2415UL	24	15	6.4	10.8 x 8.4 x 3.3	-
SEC-2425UL*	24	25	11.0	13.0 x 9.0 x 4.25	900-RC
SEC-2440UL*	24	40	12.1	15.0 x 9.0 x 4.25	900-RC

900-RC Remote Control. Comes with 33' cable.

## Battery Chargers - Micro-processor controlled

BP-1210	12	10	2.2	8.3 x 3.3 x 2.0	n/a
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\* Includes temperature sensor to prevent under/over charging of battery if temperature varies extensively.



# Battery Backup

## BBM SERIES



BBM-1225

Connect these modules to an AC-DC power supply to provide battery back-up power to your DC equipment in the event of an AC power failure. On return of AC power, the module regulates output current and voltage to recharge the batteries, as well as supply the DC loads.



### DESIGN FEATURES

- Uninterrupted DC power in conjunction with a power supply and a battery
- Solid state, no relay for instantaneous transfer of load between the power supply and the battery
- Use with any Samlex or other 12VDC or 24VDC power supply or converter
- Float charges battery when AC available
- Redundant DC power source

### APPLICATIONS

Automotive	Communication sites
Recreational vehicles	Battery back-up systems

### 2 YEAR WARRANTY

# Battery Accessories

## ISOLATOR, GUARDS & WATCH



ACR-160

### Battery Backup

Model	Input Voltage	Output Voltage	Output Current (amps)	Weight (lbs)	Dimensions (inches)
BBM-1225	≤ 28 VDC	0.5 VDC < input	≤ 25 A	0.8	4.5 x 3.9 x 1.9
BBM-12100	≤ 28 VDC	0.4 VDC < input	≤ 100 A	2.2	7.4 x 5.9 x 2.6
<b>Battery Chargers - Micro-processor controlled</b>					
BP-1210	12 VDC	Absorption: 14.4 VDC Float:13.6 VDC	10 A	2.2	8.3 x 3.3 x 2.0



### AUTOMATIC CHARGE ISOLATOR

ACR-160 is a voltage dependant switch that separates or parallels starter and auxiliary battery banks in order to (1) Protect the starter battery from deep discharge, and (2) Recharge the two battery banks. Also known as a Battery Separator, Isolator, or Automatic Charging Relay.

### BATTERY GUARD

The Battery Guard prevents excessive battery discharge (which can damage the battery) and protects electronic appliances against over voltage.

### BATTERY WATCH

12VDC or 24VDC programmable monitor that displays battery state of charge through various LED patterns.

### DESIGN FEATURES

#### Automatic Charge Isolator

- Micro-processor controlled
- Easy to install, potted, waterproof, sealed unit
- Very low standby current
- Automatic detection of 12 or 24 VDC systems
- 160A continuous rated, 480A peak (250 msec)
- Monitoring of relay activation by external LED
- Over voltage protection

#### Battery Guards

- Program disconnect/reconnect at 10 different voltages settings
- Extends battery life; Prevents damage to connected components
- Protects against excessive voltage caused by faulty alternators or chargers
- Prevents excessive discharge of batteries
- Automatic voltage detection - 12VDC or 24VDC

### APPLICATIONS

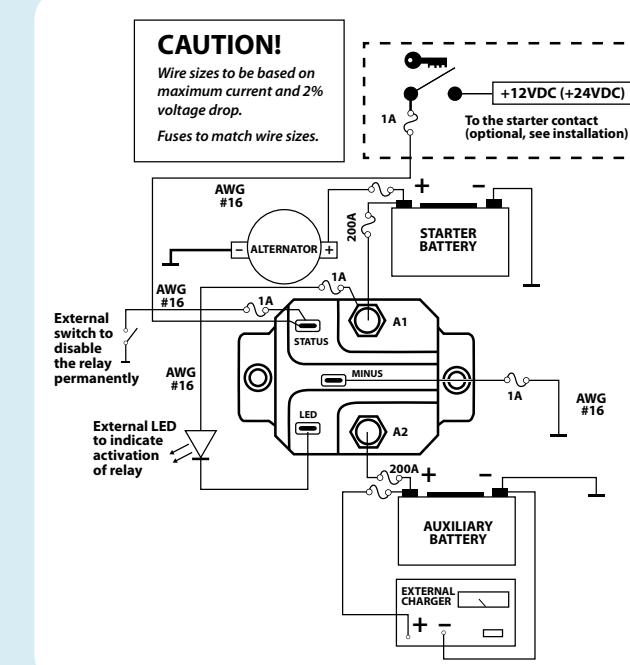
Marine	Renewable energy
Automotive	Commercial/Industrial
Recreational & Utility Vehicles	Communications

### COMPLIANCE

RoHS; CE

### 2 YEAR WARRANTY

RoHS CE



### Battery Accessories

Model	Description	Amps (A)	Weight (lbs)	Dimensions (inches)
ACR-160	Automatic Charge Isolator	160	1.0	4.2 x 2.9 x 2.3
BG-40	Battery Guard	40	0.5	3.2 x 2.1 x 1.6
BG-60	Battery Guard	60	0.5	3.2 x 2.1 x 1.6
BG-200	Battery Guard	200	0.5	4.5 x 4.7 x 2.4
BW-01	Battery Watch	-	0.125	2.6 x 2.6 x 0.8
BW-03	Battery Watch	-	0.2	2.4 x 2.4 x 0.8



BW-01



BG-200

# Solar Charge Controllers

## SCC-30AB



SCC-30AB

### DESIGN FEATURES (PWM, SERIES TYPE)

- PWM series type
- Battery equalization
- 8 charge settings for most battery types
- 4-stage charging with LED indicators
- Digital LCD display indicates battery voltage, PV current, PV watts, daily and accumulated Ah, charging stage and battery temperature
- Switch selectable 12VDC or 24VDC
- Flush mount design

### APPLICATIONS

Recreational vehicles	Field work
Service vehicles	Rural electrification
Boats	Solar home systems
Off-grid & mobile solar systems	

### 5 YEAR WARRANTY

Regulate current flowing from a solar panel to your batteries and optimise charging.

A single 30 amp Samlex SCC-30AB charge controller can manage multiple panels up to 500W in a 12V system, or up to 1000W in a 24V system under specified conditions.

## Battery Temperature Sensor

Temperature compensated charging ensures that batteries are optimally charged under wide temperature variations.

For use specifically with SCC-30AB Charge Controller.

  
Battery Temperature Sensor Model: DC-BTS-A-C  
Sold separately.

### Samlex SCC-30AB Solar Charge Controller

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SCC-30AB	12/24	30	0.8	7.48 x 4.25 x 1.38
DC-BTS-A-C Battery Temperature Sensor		0.4	33.0 x 0.1 x 0.1	



SCC-30AB Solar Charge Controller wall mounted in an RV.

# Solar Charge Controllers

## SMC & SCC SERIES



SMC-20

### DESIGN FEATURES

#### SMC-20

- 20 Amps
- LEDs indicate battery state of charge
- Temperature compensation
- Multi-stage charging technology
- Voltage and current regulation
- Automatic load reconnection
- Programmed for use with Flooded AGL batteries
- Automatically detects 12 or 24 Volts



SMC-10

#### SMC-10

- 10 Amps
- LEDs indicate battery state of charge
- Temperature compensation
- Multi-stage charging technology
- Voltage and current regulation
- Automatic load reconnection
- Programmed for use with sealed GEL batteries
- Automatically detects 12 or 24 Volts

### 5 YEAR WARRANTY

## SCC-1208L

### DESIGN FEATURES

- Sealed, splash proof weather resistant design (Ingress Protection Rating IP65)
- Automatically turns ON lights when dark and turns OFF during the day
- Wide operating temperature range of -40°C to +60°C
- Mosfet based reverse current blocking prevents night-time battery discharge and lowers power loss
- 3 stage charging (bulk, absorption, float)
- Protections: overload, over-temperature, battery under/over voltage and reverse polarity



SCC-1208L

### Solar Charge Controllers

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SMC-10	12/24	10	0.33	5.7 x 3.94 x 0.94
SMC-20	12/24	20	0.80	3.75 x 7.36 x 1.77
SCC-1208L	12	8	0.276	3.8 x 1.8 x 1.0

### APPLICATIONS

Off-grid and mobile solar systems	Traffic, security, environment, and other remote monitoring and signalling systems
Rural electrification	Marine & RV
Monitoring systems for the oil & gas industry	Water pumping systems

**COMPLIANCE, SCC-1208L MODEL:** CE; FCC Part 15(B), Class B; IP65



# Solar Charge Controllers

## STECA

### SOLSUM SERIES

Economical, PWM Series type controller. Wide operating temperature range.

### PRS SERIES

Simple and cost effective, PWM Series type controller. Wide operating temperature range.

### PR SERIES

High performance, PWM Shunt type controller with LCD display. Shows SOC, all currents, alarms, Ah and more.

### MPPT-2010

Maximum power point tracking for module voltages higher than battery voltage.

### SOLARIX 4401

PWM Shunt type controller, suitable for inverter systems.

### TAROM 440

PWM Shunt type, high-end controller for telecommunication and off-grid PV hybrid systems.

### 2 YEAR WARRANTY



SOLSUM 6.6F



PRS-3030



PR-1515



MPPT-2010



SOLARIX 4401



SOLARIX TAROM 440

# Solar Charging Kits

## SRV SERIES



### Includes:

- High efficiency Solar Panel
- 30A Charge Controller – Model: SCC-30AB, see page 19 for product features
- Connecting Wires
- Mounting Brackets & Hardware

# Solar Panel Kits

## SSP SERIES



### Includes:

- High efficiency Solar Panel
- Connecting Wires
- Mounting Brackets & Hardware

**Mix and match panels with charge controllers & accessories (sold separately) for a customized solar system to meet any power needs.**

### Solar Charge Controllers

Model	Input (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
<b>SOLSUM Series</b>				
SOLSUM 6.6 F	12/24	6	0.33	5.71 x 3.94 x 0.94
SOLSUM 8.8 F	12/24	8	0.33	5.71 x 3.94 x 0.94
<b>PRS Series</b>				
PRS-1010	12/24	10	0.76	7.36 x 3.78 x 1.77
PRS-1515	12/24	15	0.76	7.36 x 3.78 x 1.77
PRS-3030	12/24	30	0.76	7.36 x 3.78 x 1.77
<b>PR Series</b>				
PR-1010	12/24	10	0.77	7.36 x 3.78 x 1.73
PR-1515	12/24	15	0.77	7.36 x 3.78 x 1.73
PR-2020	12/24	20	0.77	7.36 x 3.78 x 1.73
PR-3030	12/24	30	0.77	7.36 x 3.78 x 1.73
<b>STECA</b>				
MPPT-2010	12/24	20	1.98	7.36 x 6.02 x 2.68
SOLARIX 4401	48	40	0.88	7.4 x 5.04 x 1.93
TAROM 440	48	40	1.21	7.4 x 5.04 x 1.93

### Solar Charging Kits

MODEL	SOLAR PANEL	PANEL WEIGHT (LBS)	PANEL DIMENSIONS (INCHES)	CHARGING POWER
SRV-100-30A	100W	17.63	47.25 x 21.73 x 1.39	5.81A
SRV-150-30A	150W	26.4	26.0 x 58.03 x 1.39	8.82A

### Solar Panel Kits

MODEL	SOLAR PANEL	PANEL WEIGHT (LBS)	PANEL DIMENSIONS (INCHES)	CHARGING POWER
SSP-100-KIT	100W	17.63	47.25 x 21.73 x 1.39	5.81A
SSP-150-KIT	150W	26.4	26.0 x 58.03 x 1.39	8.82A

**SAMLEX BULK SOLAR PANELS are available by special order on request. Models available range from 50 to 230 Watts. MOQ's Apply.**

### Solar Accessories

SM5-KIT



#### Mounting Brackets & Hardware

**Secures the solar panel to a flat surface, provides space underneath for cooling.**

ADJ-28



#### Adjustable Solar Panel Tilt Mount

**Over 30 adjustable settings from 0-90°. Get up to 40% more out of your solar panel.**

SBC-2



#### Branch Connectors

**connect panels in parallel. Includes (1) male and (1) female.**

MC4-2



#### Multi-Contact Connectors

**connect your panel to a charge controller or to an additional panel. 20' of cable provided.**

SCW-20-2



#### Connecting Wires

**connect your panel to a charge controller or to an additional panel. 20' of cable provided.**

# Portable Charging Kits

## MSK SERIES



Durable carrier bag included

Capture the power of the sun without complicated installations, brackets or electrical diagrams. Samlex portable solar kits fold away conveniently with an easy carry handle for quick transport or stowage. Now you can take solar with you! Samlex portable solar kits have all you need for 90W or 135W of power, wherever you need it.

### DESIGN FEATURES

- Units come with state-of-the Art PWM Charge Controller, 10 Amps (MSK-10A)
- Units ship complete with rugged, easy to use Anderson connectors and a pair of convenient battery clamps for fast connection to your DC system.
- Fold out, adjustable legs provide a stable platform and a great way to optimize the panels for the sun's energy
- Features stainless steel and aluminum hardware; hardwearing components for life on the road!

### APPLICATIONS

Recreational vehicles	Boating
Cabins	Motor Sports
Camping	Remote Locations

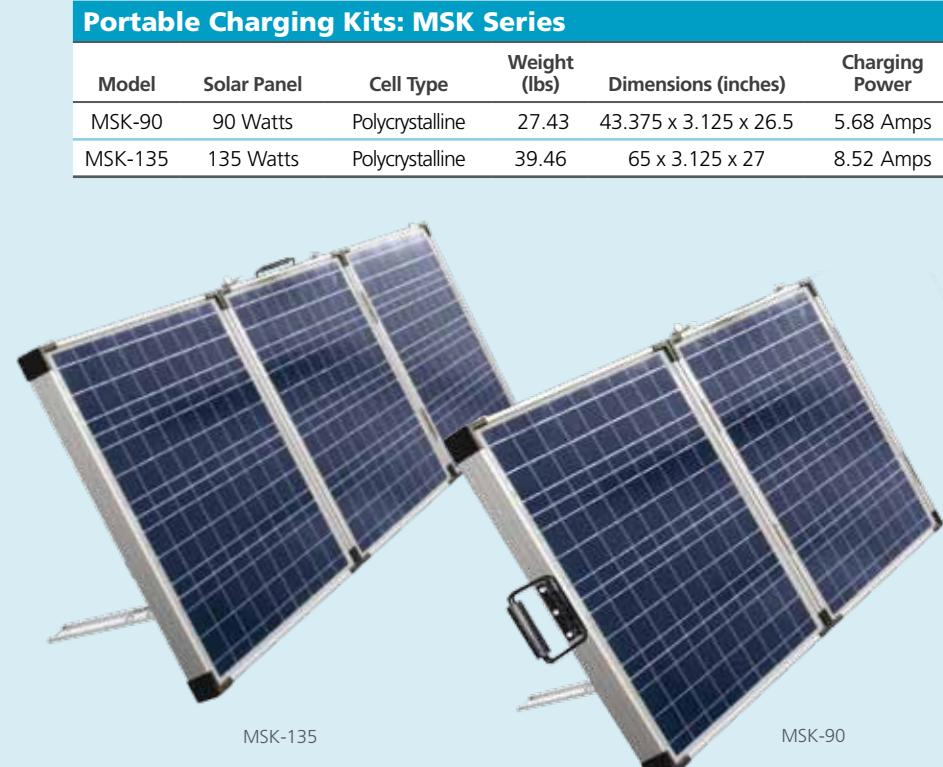
### 5 YEAR WARRANTY



### MSK-10A Charge Controller

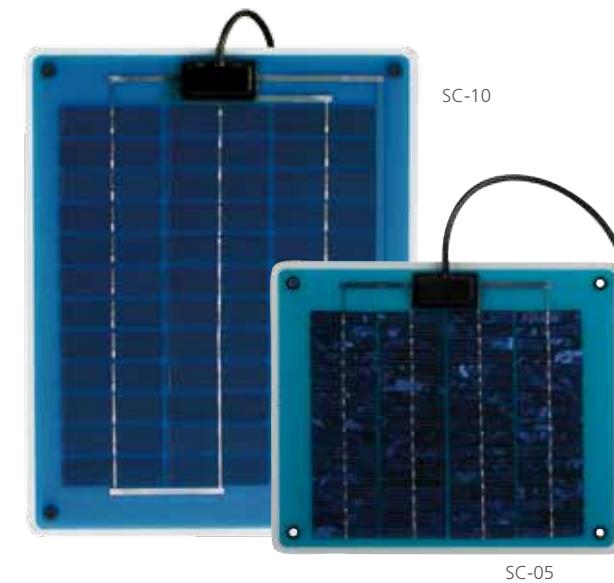
- 10 AMPS, PWM Design
- Battery Type Selection – Flooded / AGM / Gel
- Bulk, Boost, Float and Equalization modes for fast, optimum and safe charging
- Temperature compensation to prevent under / over charging

Included in each kit.



# Portable Solar Trickle Chargers

## SUNCHARGER SERIES



Samlex SunChargers are portable solar panels designed for trickle charging 12V rechargeable Lead Acid batteries. Available in 5W or 10W, SunChargers lightweight and compact design produces twice the power of amorphous or thin-film panels. More power in a smaller package.

### DESIGN FEATURES

- Connect through a 12V lighter socket to trickle charge your battery
- Maintenance free
- Extends battery life
- Ultra slim, compact and weather-proof
- Rugged, durable construction - no metal or glass
- Comes with a standard 12V power plug
- Integrated blocking diodes to prevent discharge from the battery

### APPLICATIONS

Recreational vehicles	Cars
Marine	Trucks
ATV's	Motorcycles
Private aircrafts	

### 2 YEAR WARRANTY



### Portable Solar Panels: SunCharger Series

Specifications	Model SC-05	Model SC-10
Type of cell	Polycrystalline	Polycrystalline
Output voltage (at max. power point), $V_{MP}$	16.0VDC	17.0VDC
Output current (at max. power point), $I_{MP}$	0.30A	0.56A
Operating temperature	-35°F to +175°F (-37°C to +79°C)	-35°F to +175°F (-37°C to +79°C)
Dimensions (L x W x H), inches	12 x 10 x 0.53	12 x 15 x 0.53
Weight, (lbs)	1.2	2.0

Keep your batteries charged during extended periods of non-use.

# Switching Power Supply with Battery Backup Circuit

## BBM SERIES



The SEC-1223BBM combines the reliability of the classic SEC-1223 power supply with the reassurance of the BBM-1225 battery backup module. This combined unit automatically provides uninterrupted DC power from an external backup battery to your critical load in the event of an AC power outage. Once AC power is restored, the SEC-1223BBM will continue to seamlessly supply DC power to the load while providing a current limited charge to the backup battery.

The SEC-1223BBM will fit into any Samlex Desktop Radio Cabinet.



### Desktop Switching Power Supplies - BBM Series

Model	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)	Compliance
SEC-1223BBM	120	13.8	23	3.4	7.0 x 9.5 x 2.4	UL, FCC
SEC-1223BBM-230	230	13.8	23	3.4	7.0 x 9.5 x 2.4	EMI, EMC



Use the SEC-R2 rackplate to conveniently combine the SEC-1223BBM with another power supply, mobile radio or battery pack. Rackplates are now sold separately.

### DESIGN FEATURES

- Advanced switch-mode technology
- Reliable uninterruptible DC power source in conjunction with external Lead Acid Battery
- Efficient, compact and lightweight
- Units available preset to 120 or 230 VAC
- Protected against short circuit, overload, over voltage and over temperature
- Cooling by temperature controlled fan improves efficiency and prolongs life of the fan

### APPLICATIONS

Two-way radio base stations	Automotive displays
Communication systems	Marine product displays
Security systems	DC Computers
Test equipment	12 Volt lighting systems
Plotters	OEM applications
GPS receivers	

### COMPLIANCE

FCC Part 15(B), Class B; UL Safety Listed

### 3 YEAR WARRANTY



# Switching Power Supply SEC SERIES



SEC-1235M

### DESIGN FEATURES

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- Input voltage can be set internally to 120VAC or 230VAC
- Available in desktop or rackmount

### APPLICATIONS

Two-way radio base stations	Automotive displays
Communication systems	Marine product displays
Security systems	DC Computers
Test equipment	12 Volt lighting systems
Plotters	OEM applications
GPS receivers	

### COMPLIANCE

FCC Part 15(B), Class B; RoHS; UL Safety Listed

### 3 YEAR WARRANTY



Switch mode power supplies are designed for minimal power loss. These highly efficient, light weight and compact power supplies are available in a variety of configurations to meet your DC power requirements. Desktop power supply and radio cabinet combinations are available (see page 28).

### Desktop Switching Power Supplies - SEC Series

Model	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)	Compliance
SEC-1212	120	13.8	10	3.0	7.0 x 8.3 x 2.2	UL, FCC
SEC-1212CE	230	13.8	10	3.0	7.0 x 8.3 x 2.2	CE, RoHS
SEC-1223	120	13.8	23	3.5	7.0 x 8.3 x 2.2	UL, FCC
SEC-1223CE	230	13.8	23	3.5	7.0 x 8.3 x 2.2	CE, RoHS
SEC-1235	120	13.8	30	3.4	8.0 x 7.3 x 2.5	UL, FCC
SEC-1235M*	120	13.8	30	3.4	8.4 x 7.3 x 2.5	UL, FCC
SEC-1223BBM	120	13.8	23	3.4	7.0 x 9.5 x 2.4	UL, FCC
SEC-1223BBM-230	230	13.8	23	3.4	7.0 x 9.5 x 2.4	EMI, EMC
SEC-R1	-	-	-	2.6	19 x 3.5 x 7.75	RoHS
SEC-R2	-	-	-	3.2	19 x 3.5 x 7.75	RoHS

\* Comes with meter

### SEC-R1 & SEC-R2

Rackplates (now sold separately) can be used with all Samlex SEC Series power supply models – including the NEW SEC-1223BBM.



# Redundant Switching Power Supplies

## BRM SERIES



SEC-40BRM

### BRM SERIES

19" rackmount power supplies are available with a wide range of input and output voltages. These advanced switch-mode DC power supplies with built-in battery back-up facility produce clean, reliable power and are highly filtered to suppress RFI.

### MPSB MODULES

Open frame SMPS modular power supplies. Used as modules in BRM series or can be used independently. Can be operated in parallel.

### N + 1 Redundancy

Active N + 1 redundancy is a form of resilience that ensures system availability in the event of a module failure. Modules (N) have at least one backup module (+1) fully operational and sharing the load with the other modules.

When sizing the load for N + 1, allow enough overhead to have at least one module in reserve.



SEC-2012MPSB

### DESIGN FEATURES: BRM SERIES

- Modular switch mode power supply
- Provides N + 1 redundancy with modules operating in parallel
- Built in DC UPS function with backup battery charging (requires external battery)
- 25 pin D-sub connector for opto-isolated remote monitoring
- Module status LEDs, fault indicator LEDs and fault alarm are standard features on all models
- Voltage/Ampere meter

### APPLICATIONS

Two-way radio base stations	Automotive displays
Communication systems	Marine displays
Security systems	DC computers
Test equipment	Lighting systems
Plotters & GPS receivers	OEM applications

### COMPLIANCE

CSA available in Canada

### 2 YEAR WARRANTY

### Rackmount Switching Power Supplies - BRM Series

Model	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SEC-40BRM	120	13.8	40	20.5	19 x 15.9 x 3.6
SEC-60BRM	120	13.8	60	22.0	19 x 15.9 x 3.6
SEC-80BRM	120	13.8	80	23.5	19 x 15.9 x 3.6
SEC-100BRM	120	13.8	100	25.0	19 x 15.9 x 3.6
SEC-40BRM-220	230	13.8	40	20.5	19 x 15.9 x 3.6
SEC-100BRM-220	230	13.8	100	25.0	19 x 15.9 x 3.6
SEC-2450BRM	120	24.0	50	25.0	19 x 15.9 x 3.6
SEC-4825BRM	120	48.0	25	30.0	19 x 15.9 x 3.6

### MPSB Modules

Model	Input (VAC)	Output (VDC)	Amps (A)	Specific to
SEC-2012MPSB	120	14.2	20	SEC-40, 60, 80 & 100 BRM (120VAC)
SEC-1024MPSB	120	28	10	SEC-2450 BRM
SEC-0548MSP	120	48	5	SEC-4825BRM

# Base Station Radio Cabinets & Power Supply Combinations

Integrate your mobile radio with Samlex SEC-1212 or SEC-1223 to create an attractive and functional desktop base station unit.

Cabinets are available for most popular brands of land mobile radios. Cabinets are custom sized for use with specific radio models.

Samlex is always expanding its radio cabinet offering. If we don't have the cabinet you are looking for, please give us a call.

Cabinets sold separately are compatible with all SEC Series PowerSupply Models.



### OPTIONS



Cabinet Only



Cabinet & SEC-1212 Power Supply Combination



Cabinet & SEC-1223 Power Supply Combination

**3 YEAR WARRANTY**

### BASE STATION RADIO CABINET OFFERING

	Cabinet Only	Cabinet & SEC-1212	Cabinet & SEC-1223
<b>Motorola Radio Models</b>			
M100, M120, GM300	12010	n/a	13630
SM50, SM120, M1225, GTX, CM200, CM300, PM400	12060	13504	13601
CDM750, CDM1250, CDM1550	12220	13514	13612
MOTOTRBO XPR4550, XPR4350, XPR4380, XPR6150, DGM6100	12337	13523	13624
MOTOTRBO XPR5000 Series	12430	13524	13628
<b>Vertex Radio Models</b>			
VX2000, VX2500, VX3000, VX3200	12070	13505	13605
Vertex VX4000, (VX6000 Low Band)	12210	13517	13613
VX4100/4200 Series	12260	13520	13619
VX2200, VX2100	12280	13522	13622
VX4500, VX4600	12080	13525	13629
VXD7200	12337	n/a	n/a
<b>Kenwood Radio Models</b>			
TK880 TK760(G) TK760H, TK762G, TK840, TK860G, TK862G, TK780, TK840, TK940, TK980, TK981	12090	13506	13603
TK7160(H), TK8160(H), TK7102, TK7180, TK8180, TK7360, TK8360, TK7302, TK8302, NX700, NX800	12250	13521	13618
TK-6110	12270	n/a	13620
<b>HYT Radio Models</b>			
MD-78X Series	12410	n/a	13623
<b>Harris (M/A Com) Radio Models</b>			
M7300, M5300	12400	n/a	13625
M7100	12170	n/a	13610
500M/MDX	12180	n/a	13611
HDM150	12410	n/a	n/a
<b>Icom Radio Models</b>			
IC-A110, IC-F1010/F2010, IC-F1610/F2610	12110	13508	13607
IC-F310, 320, 410, 420, 510, 610	12120	13509	13606
IC-F110S/F210S, IC-F110/F210, IC-F121S/F221S, IC-F121/F221, F5121, F6121, F5011, F6011	12200	13515	13616
IC-F5061/IC-F6061	12333	n/a	13621

# OEM Industrial Power Supplies & Converters

## RS, SE, SD & RCP SERIES



RS-100-12

The RS, SE, SD & RCP Series of industrial power supplies and converters are designed for OEMs.

UL component approval ensures these products are ready to be used as a component in the production of your UL Listed product.

### RCP SERIES

Expandable 19" 1 RU rackmount power supplies from 1000 - 8000W. Full range universal AC input modules operate in a wide temperature range, are Power Factor Corrected (PFC), and hot swappable. Up to 3 modules have active current sharing, and up to 3 full racks can be paralleled.



#### DESIGN FEATURES

- Universal or switch selectable AC voltage
- Protections: short circuit, overload/over voltage

#### INDUSTRIAL DC-DC ISOLATED CONVERTERS

- 2:1 and 4:1 wide input range available
- Protections: short circuit, overload/over voltage

#### OEM APPLICATIONS

Communication systems	Test equipment
Security systems	GPS receivers

#### COMPLIANCE

Safety Listed to UL 60950-1 as UL recognized component (Power Supplies); CE; FCC Part 15(B), Class B (DC-DC Isolated Converters)

#### 2 YEAR WARRANTY



#### Industrial Switching Power Supplies - RS, SE & SD Series

Model	Input (VAC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
RS-25-12	88-264	12	2.1	0.44	3.07 x 2.01 x 1.10
RS-50-12	88-264	12	4.2	0.90	3.90 x 3.82 x 1.42
RS-100-12	88-264	12	8.5	1.32	6.26 x 3.82 x 1.50
RS-150-12	88-132*	12	12.5	1.54	7.83 x 3.86 x 1.50
SE-350-12	90-132*	12	29.0	2.36	8.46 x 4.53 x 1.97
RS-25-24	88-264	24	1.1	0.44	3.07 x 2.01 x 1.10
RS-50-24	88-264	24	2.2	0.90	3.90 x 3.82 x 1.42
RS-100-24	88-264	24	4.5	1.32	6.26 x 3.82 x 1.50
RS-150-24	88-132* or 176/264*	24	6.5	1.54	7.83 x 3.86 x 1.50
SE-350-24	90-132*	24	14.6	2.36	8.46 x 4.53 x 1.97
SE-600-48	120/230*	48	12.5	5.0	9.7 x 5.0 x 2.5
SE-1000-48	120/230*	48	20.8	6.0	10.95 x 5.0 x 2.5

\* Switch Selectable

#### DC-DC Isolated Converters - Industrial OEM

Model SD Series	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SD-150D-12	72-144	12	12.5	1.8	8.0 x 4.5 x 2.25
SD-150C-12	36-72	12	12.5	1.8	8.0 x 4.5 x 2.25
SD-150C-24	36-72	24	6.25	1.8	8.0 x 4.5 x 2.25
SD-150B-24	19-36	24	6.25	1.8	8.0 x 4.5 x 2.25

#### Rackmount Power Supplies - RCP Series

Model SD Series	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
RCP-1000-24C	90-264	24	40	4.21	11.61 x 5.00 x 1.61
RCP-1000-48C	90-264	48	21	4.21	11.61 x 5.00 x 1.61
RCP-1UI	n/a	n/a	n/a	24.25	19.04 x 13.81 x 1.73
RCP1UT	n/a	n/a	n/a	24.25	19.04 x 13.81 x 1.73

# DC-DC Step-Down Converters

## SDC SERIES



SDC-23

The SDC Series DC-DC converters are non-isolated and meant for use in negative ground systems. These converters are designed for heavy duty applications.

#### DESIGN FEATURES

- Advanced switch mode design
- Mount in almost any location
- Compact and light weight
- High efficiency
- Cycle by cycle current limiting circuit
- Over voltage protection
- Short circuit protection
- Reverse polarity protection

#### APPLICATIONS

Earth moving equipment	Two-way radios
Heavy trucks	12 Volt lighting systems
Buses	AM/FM sound systems
Marine	Instrumentation

COMPLIANCE CE, RoHS (except SDC-15 & SDC-23)

#### 2 YEAR WARRANTY



#### DC-DC Step-Down Converters - SDC Series

Model	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
SDC-5	20-32	13.8	5.0	0.4	3.5 x 2.7 x 1.9
SDC-12	20-32	13.8	12	0.6	3.9 x 2.7 x 1.9
SDC-15	20-35	13.8	12	2.0	7.8 x 4.8 x 2.4
SDC-23	20-35	13.8	20	2.2	7.8 x 4.8 x 2.4
SDC-30	20-32	13.8	30	1.5	5.9 x 3.5 x 1.9
SDC-60	20-32	13.8	60	2.6	7.5 x 3.5 x 3.6



# DC-DC Isolated Converters

## IDC SERIES



The IDC Series is a complete line of highly efficient DC-DC converters suitable for applications requiring isolation between input and output.

### DESIGN FEATURES

- Advanced switch mode design
- Current limited
- Compact and lightweight
- High efficiency
- Short circuit protected
- 1/4" push-on flat pin connectors

### APPLICATIONS

Earth moving equipment	Two-way radio
Heavy trucks	Lighting systems
Buses	AM/FM sound systems
Marine	Instrumentation
Communications	

### COMPLIANCE

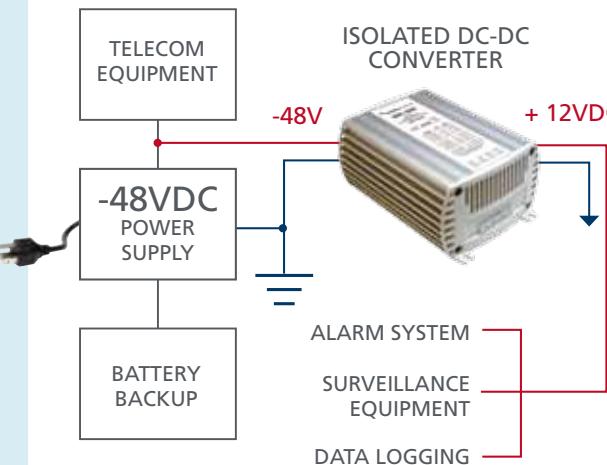
RoHS; CE

### 2 YEAR WARRANTY

**RoHS**

### DC-DC Isolated IDC Series

#### Ground Reference Isolation



### DC-DC Isolated Converters - Communications

Model IDC Series	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
IDC-100A-12	9-18	12.5	8	1.2	5.9 x 3.5 x 1.9
IDC-100B-12	20-35	12.5	8	1.2	5.9 x 3.5 x 1.9
IDC-100C-12	30-60	12.5	8	1.2	5.9 x 3.5 x 1.9
IDC-100A-24	9-18	24.5	4	1.2	5.9 x 3.5 x 1.9
IDC-100C-24	30-60	24.5	4	1.2	5.9 x 3.5 x 1.9
IDC-200A-12	9-18	12.5	16	1.4	6.9 x 3.5 x 1.9
IDC-200B-12	20-35	12.5	16	1.4	6.9 x 3.5 x 1.9
IDC-200C-12	30-60	12.5	16	1.4	6.9 x 3.5 x 1.9
IDC-200D-12	60-120	12.5	16	1.4	6.9 x 3.5 x 1.9
IDC-200A-24	9-18	24.5	8	1.4	6.9 x 3.5 x 1.9
IDC-200C-24	30-60	24.5	8	1.4	6.9 x 3.5 x 1.9
IDC-360A-12	9-18	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360B-12	20-35	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360C-12	30-60	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360D-12	60-120	12.5	30	3.2	7.4 x 5.2 x 3.2
IDC-360A-24	9-18	24.5	15	3.2	7.4 x 5.2 x 3.2
IDC-360B-24	20-35	24.5	15	3.2	7.4 x 5.2 x 3.2
IDC-360C-24	30-60	24.5	15	3.2	7.4 x 5.2 x 3.2

48 VDC Models are available by special order.

# DC-DC Step-Up Converters

## STEP, VTC & IDC SERIES



DC-DC Step-Up converters are designed to increase DC voltage. Available in a variety of models from light-duty to industrial applications.

### DESIGN FEATURES

#### STEP 7 & 10

- Switch mode design, non-isolated
- Over-current, over-voltage, reverse polarity protection
- 1/4" push-on flat pin connectors

#### VTC SERIES

- Switch mode design, non-isolated
- Shock and vibration tolerance
- Current limiting circuit; over voltage crowbar circuit
- Rugged marine grade aluminum case

#### IDC SERIES

- Isolated
- Short circuit protected, current limited
- High efficiency, compact and lightweight

### APPLICATIONS

Earth moving equipment	Two-way radios
Heavy trucks	DC lighting systems
Buses	AM/FM sound systems
Marine	

### COMPLIANCE

RoHS; CE (except VTC)

### 2 YEAR WARRANTY

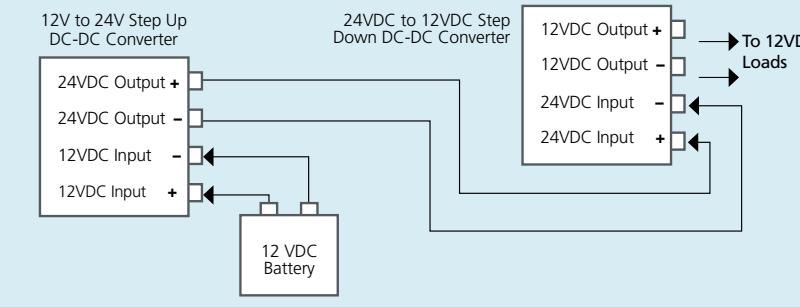
**RoHS**



### DC-DC Step-Up Converters

Model	Input (VDC)	Output (VDC)	Amps (A)	Weight (lbs)	Dimensions (inches)
STEP 7	9-18	24.6 - 25.7	7	0.7	3.0 x 3.5 x 2.0
STEP 10	9-18	24.6 - 25.7	10	0.9	5.0 x 3.5 x 1.9
STEP 20	9-18	24.6 - 25.7	20	1.8	6.0 x 3.7 x 3.6
VTC305-12-24	10.5-28	24-27.5	12-27	4.0	9.1 x 7.8 x 2.5
VTC605-12-24	10.5-28	24-27.5	20-45	6.0	9.1 x 7.8 x 4.3
IDC-100A-24	9-18	24.5	4	1.2	5.9 x 3.5 x 1.9
IDC-200A-24	9-18	24.5	8	1.4	6.9 x 3.5 x 1.9
IDC-360A-24	9-18	24.5	15	3.2	7.4 x 5.2 x 3.2

### Step-Up, Step-Down Application Requiring Long DC Path For Distributed Networks



The 12VDC load is located at a distant location from the 12V source.

# Contact Information

## Toll Free Numbers

Ph: 1 800 561 5885  
Fax: 1 888 814 5210

## Local Numbers

Ph: 604 525 3836  
Fax: 604 525 5221

## Websites

[www.samlexamerica.com](http://www.samlexamerica.com)  
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